August 2, 1961

Mr. Carlyle Pace
Sec., Price River Adjudication Committee
Carbon County Courthouse
Price, Utah

Price R.

Dear Mr. Pace:

It is recommended that the Price River Water Users install parshall flumes on the streams entering Scofield Reservoir, i.e., Muddy Creek, Pondtown Creek, and Upper Fish Creek, to enable the River Commissioner to more effectively and accurately record the inflow to Scofield Reservoir, and to distribute the waters of Price River.

Further, it is recommended that a weir be installed below the old Scofield bridge on White River to measure the flow of this tributary to the Price River System.

These weirs and/or flumes should be equipped with direct reading staff gages. The flumes must be properly installed to minimize submergence and possible damage by flash floods and high runoff.

Please contact your River Commissioner, Mr. Harvey Thomas, for details on locations and installations of these measuring devices. If this office can assist the water users of Price River in making these water measurement improvements for the Price River System, please feel free to call upon our services.

The following recommendations are made concerning the size of the parshall flumes to be installed:

1. Pondtown Creek ... 8-ft. parshall flume, below road crossing.
2. Muddy Creek ... 6-ft. parshall flume, below diversions near an access road.
3. Upper Fish Creek ... 15-ft. parshall flume, near an access road.
4. White River ... 20-ft. parshall flume, below old Scofield bridge.

The size of the flumes have been chosen after studying available stream flow records and may prove to be somewhat inadequate during high runoff periods. The flumes should be protected to prevent damage by erosion and designed to bypass as much of the high runoff as possible. During extreme low flow periods, these flumes may have to be modified by the use of a false side to reduce the throat width and convergence section. These large flumes may not have the accuracy that smaller flumes would have for measuring low flows, but temporary modifications during low flow periods would help.

Perhaps your Soil Conservation Service representative may assist in designing and making these installations.

Yours truly

CER/wh

Wayne D. Criddle
STATE ENGINEER